

IN THE CLAIMS:

This listing of the claims will replace all prior versions and listings of the claims in the application:

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1. (Currently Amended) A telecommunications system, comprising:
an Ethernet-type local area network; and
one or more telecommunications devices coupled to said Ethernet-type local area network, said one or more telecommunications devices including:
an Internet Protocol voice communication stack;
a Quality of Service Ethernet layer; and
a Generate Quality of Service Ethernet layer interposed between said Internet Protocol voice communication stack and said Quality of Service Ethernet layer and adapted to intercept a second byte in an IP header, identify from said second byte a quality of service required for individual calls, and generate corresponding Quality of Service commands to said Quality of Service Ethernet layer to define an Ethernet Quality of Service.

2. (original) A telecommunications system in accordance with claim 1, said second byte comprising a Type of Service byte.

3. (original) A telecommunications system in accordance with claim 1, said second byte comprising a Differentiated Service byte.

4. (original) A telecommunications system in accordance with claim 2, wherein said Quality of Service Ethernet layer and said Generate Quality of Service Ethernet layer are modular.

5. (original) A telecommunications system in accordance with claim 3,

wherein said Quality of Service Ethernet layer and said Generate Quality of Service Ethernet layer are modular.

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6. (Currently Amended) A telecommunications device adapted to be coupled to an Ethernet-type local area network, comprising:
an Internet Protocol voice communication stack;
a Quality of Service Ethernet layer; and
a Generate Quality of Service Ethernet layer interposed between said Internet Protocol voice communication stack and said Quality of Service Ethernet layer and adapted to intercept a second byte in an IP header, identify from said second byte a quality of service required for individual calls, and generate corresponding Quality of Service commands to said Quality of Service Ethernet layer to define an Ethernet Quality of Service.

7. (original) A telecommunications device in accordance with claim 6, said second byte comprising a Type of Service byte.

8. (original) A telecommunications device in accordance with claim 6, said second byte comprising a Differentiated Service byte.

9. (original) A telecommunications device in accordance with claim 7, wherein said Quality of Service Ethernet layer and said Generate Quality of Service Ethernet layer are modular.

10. (original) A telecommunications device in accordance with claim 8, wherein said Quality of Service Ethernet layer and said Generate Quality of Service Ethernet layer are modular.

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11. (Currently Amended) A method comprising:
intercepting a second byte from an Internet Protocol header;
identifying from said second byte a quality of service required for individual calls;
and
generating corresponding Quality of Service commands to a Quality of Service
Ethernet layer to define an Ethernet Quality of Service.

12. (Currently Amended) A method, comprising:
beginning an IP multimedia call;
encapsulating corresponding messages for said IP multimedia call in IP protocol
data packets;
setting a second byte of an IP header for said IP protocol data packets;
reading said second byte before said IP protocol data packets are sent over a
network;
accessing a lookup table, said lookup table containing entries for mapping said
second byte to QoS Ethernet quality of service commands;
sending said QoS Ethernet quality of service commands to a QoS Ethernet layer;
and
sending said IP protocol data packets over an Ethernet network using a quality of
service as specified in said QoS Ethernet quality of service commands.

13. (original) A method according to claim 12, wherein said second byte
comprises a type of service byte.

14. (original) A method according to claim 12, said second byte comprising a
differentiated service byte.

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15. (Currently Amended) A system, comprising:

means for beginning an IP multimedia call;

means for encapsulating corresponding messages for said IP multimedia call in IP protocol data packets;

means for setting a second byte of an IP header for said IP protocol data packets;

means for reading said second byte before said IP protocol data packets are sent over a network;

means for accessing a lookup table, said lookup table containing entries for mapping said second byte to QoS Ethernet quality of service commands;

means for sending said QoS Ethernet quality of service commands to a QoS Ethernet layer; and

means for sending said IP protocol data packets over an Ethernet network using a quality of service as specified in said QoS Ethernet quality of service commands.

16. (original) A system according to claim 15, wherein said second byte comprises a type of service byte.

17. (original) A system according to claim 15, said second byte comprising a differentiated service byte.